

ACCEPTED

AUG 11973

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENT CIDE ACT
FOR ECONOMIC POISON REG. STER-
ED UNDER NO. 10447-3 SUBJECT
TO ATTACHED COMMENTS.



SUBSIDIARY OF MERCK & CO., INC.

Part No. 681001-41000

NO. 11 ALGAEICIDE

**For Control of Algae and Bacteria in Recirculating
Water Tower Systems and Evaporative Condensers**

Active Ingredient: Calcium hypochlorite...70%
Inert Ingredients.....30%

EPA Registration No. 10447-3

Weight Per Tablet: .15 oz (4.2 Grams)

Net Wt. 14 Oz (396.9 Grams)

WARNING: KEEP OUT OF REACH OF CHILDREN

See other warnings on back panel

9235B
Made in U.S.A.

DIRECTIONS FOR USE

Refer to No. 11 Algaecide Product Bulletin

CAUTION: Keep pellets dry when storing. Do not allow water containing algaecide to contact grass or plants. NEVER use No. 11 Algaecide and any acid cleaner at the same time.

WARNING: Strong oxidant. Keep container closed and away from heat and open flames. Avoid contact with combustible materials.

DANGER: Keep Out of Reach of Children. May be Fatal or Harmful if Swallowed. May produce severe chemical burns. Do not get on skin or in eyes. In case of skin and eye contact, flush with plenty of water.

If skin irritation occurs, seek medical attention.

ANTIDOTE: Give milk, water or other liquid. If swallowed, give milk, water or other liquid. If skin irritation occurs, give milk, water or other liquid. If swallowed, give milk, water or other liquid. If skin irritation occurs, give milk, water or other liquid.

This product is for use in recirculating water tower systems and evaporative condensers. It is not to be used in streams, ponds, or other bodies of water. Apply this product in Product Bulletin No. 11 Algaecide.

**CALGON CORPORATION • Subsidiary of MERCK
WHOLESALE DEPARTMENT, Box 1346, Pittsburgh, PA 15201**



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If skin irritation persists, get medical attention.

ANTIDOTE: External—Wash thoroughly with water. For eyes, get prompt medical attention. Internal—Give milk, water, or egg whites. Call Physician immediately.

Do not reuse container. Destroy when empty.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Apply this product only as specified in Product Bulletin 3-9.

CALGON CORPORATION • Subsidiary of MERCK & CO., INC.
WHOLESALE DEPARTMENT, Box 1346, Pittsburgh, Pa. 15230



PRODUCT BULLETIN

NO. 3-9

No. 11 ALGAECIDE

DESCRIPTION

No. 11 Algaecide is a dry slow-dissolving, chlorine-releasing pellet used to reduce and control growth of tan or black slime-forming bacteria in open recirculating cooling water systems and evaporative condensers. The product contains 70% available chlorine and is also recommended for use in above-ground swimming pools to provide a steady source of chlorine for control of infection-causing bacteria.

PURPOSE

Algae are microscopic plants that grow rapidly in open recirculating water systems. Stimulated by sunlight, warm water and nutrients of airborne or process origin, prolific growths of algae can form thick, slimy accumulations in cooling towers, sumps, pools and spray ponds.

In recirculating cooling systems, these free-floating growths are carried to heat exchangers where they become lodged and act as binders for sludge and suspended matter. In addition, algae promote deposition of efficiency-robbing bacterial slime because they provide the organic material necessary for bacterial growth. Typical consequences of unchecked bacterial deposits include reduced heat transfer efficiency, high head pressures, fouled equipment, and increased power and service costs. Proper treatment with No. 11 Algaecide aids in maintaining design capacity



plus other system variables such as pH, temperature and degree of contamination. Initial and subsequent dosage, therefore, may be different for each system.

Badly fouled systems should be cleaned before beginning treatment. Heavy existing growths can be removed quickly with Calgon Scale Remover. Loose dirt and sediment should be flushed from the system, and spray nozzles or water distribution holes should be cleaned.

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ADVANTAGES

- Easy to use
- Concentrated — contains 70% available chlorine
- Economical
- Slow dissolving
- Stable
- Effective
- Nonfoaming
- Ideal for use in above-ground swimming pools

FEED REQUIREMENTS FOR COOLING WATER SYSTEMS

The frequency and amount of No. 11 Algaecide required to control algae and slime depend on the type and amount of microorganisms present,



plus other system variables such as pH, temperature and degree of contamination. Initial and subsequent dosage, therefore, may be different for each system.

Badly fouled systems should be cleaned before beginning treatment. Heavy existing growths can be removed quickly with Calgon Scale Remover. Loose dirt and sediment should be flushed from the system, and spray nozzles or water distribution holes should be cleaned.

Place pellets in the feeding bag and suspend bag in water at least 2 inches above bottom of sump in an area where circulation is good. Allow water to circulate through system for 4 hours or longer with normal bleedoff.

Initial Dose: When the system is noticeably fouled, apply 8 to 10 pellets (1.2 to 1.5 ounces) of No. 11 Algaecide per 50 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 2 to 4 pellets (0.3 to 0.6 ounces) of No. 11 Algaecide per 50 gallons of water in the system every week or as needed to maintain control.

If growths are so severe that No. 11 Algaecide must be added more often than once a week, it is recommended that the system be treated continuously with Calgon No. 33 Algaecide.

CONTROL

No control testing is required other than visual examination of areas where slime deposits normally occur.

FEED REQUIREMENTS FOR USE IN SWIMMING POOLS

Initial Chlorination: For initial chlorination of newly filled pools, add 3 to 4 pellets of No. 11 Algaecide for each 500 gallons of capacity. Allow 4 hours for the pellets to dissolve. Then test the chlorine residual with a Calgon K0073 Chlorine Test Kit. If chlorine residual is below 0.6 to 1.0 ppm, repeat dosage until a residual of 0.6 to 1.0 is obtained.

Routine Chlorination: Subsequently add 2 to 3 pellets per 500 gallons daily or as often as needed to obtain 0.6 to 1.0 ppm chlorine residual whether the pool is in use or not. Use a test kit frequently to determine chlorine residual. To apply approximately 1.0 ppm of available chlorine, add 1 pellet per 500 gallons of water. For best results, use a dissolving basket or bag, a floating container, or add the pellets to a plastic leaf strainer in the surface skimmer. Do not permit pellets to contact steel or plastic pool linings. Do not throw pellets directly into pool.

Maintenance of pH: pH should be maintained in the 7.2 to 7.6 range. Maintaining 0.6 to 1.0 ppm chlorine residual and a 7.2 to 7.6 pH range will result in clear, sparkling water.

Stabilized Pools: For pools stabilized with cyanuric acid at concentrations up to 50 ppm, always maintain the chlorine residual at 1.0 to 1.5 ppm as determined by a test kit.

STORAGE

Keep pellets dry. Keep container closed when not in use and store away from heat and open flame. Avoid contact with combustible materials.

PACKAGING

No. 11 Algaecide is supplied in 14-ounce glass jars with feeding bag.

PRECAUTIONS

CAUTION: Keep pellets dry when storing. Do not allow water containing algaecide to contact grass or plants. NEVER use No. 11 Algaecide and any acid cleaner at the same time.

DANGER! Fatal or harmful if swallowed. May produce severe chemical burns. Avoid contact with eyes, skin, mucous membranes or clothing. Strong oxidizer, contact with combustible material may cause fire. Avoid contact with clothing and other combustible materials. Do not store near combustible materials. Remove and wash contaminated clothing promptly. While No. 11 Algaecide itself is not a combustible material, it must not be mixed or contaminated with any foreign material such as household products, paint products, soap products, solvents, acids, pool chemicals, garbage, vinegar, beverages, oil, pine oil, dirty rags, etc. Contamination or mixing with these types of chemicals and products may result in fire. Prevent burning material, such as a lighted cigarette, from falling into product. Drench fires with water. Flush spilled product with water. Dispose of spilled product by flushing with large amounts of water. Keep in a cool, dry place in original container. Always replace cap. Do not reuse empty container. Wash empty container thoroughly with water and discard in a safe place.

ANTIDOTE: External — flood with water for 15 minutes. If irritation to skin persists, get medical attention. For eyes, call physician immediately. Internal — drink milk, gelatin solution or egg whites. Follow with milk of magnesia or vegetable oil. Call physician immediately.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams or ponds. Apply only as specified in this bulletin.

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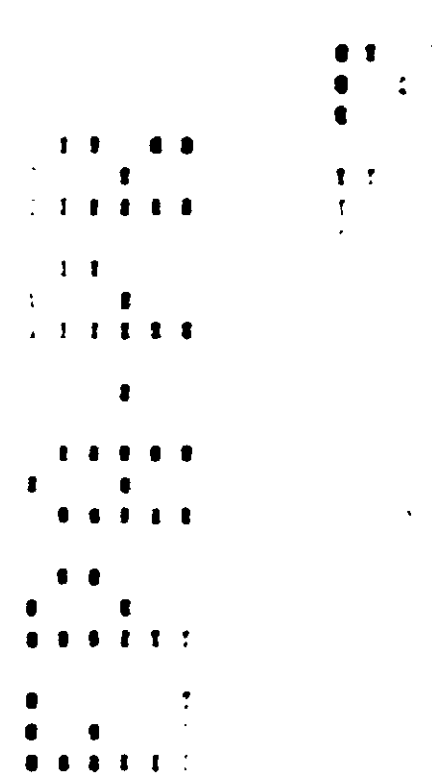
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*For additional information contact Wholesaler Department, Calgon Corporation,
P. O. Box 1346, Pittsburgh, Pa. 15230.*



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